

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	44131	(transistor).clm.	US-PGPUB	OR	OFF	2007/06/08 19:52
L2	72014	(ESD shock static discharge arc).clm.	US-PGPUB	OR	OFF	2007/06/08 19:54
L3	0	(on).clm.	US-PGPUB	OR	OFF	2007/06/08 19:54
L4	2782	(shunt shunting shunted).clm.	US-PGPUB	OR	OFF	2007/06/08 19:53
L5	27148	(short shorting shorted ).clm.	US-PGPUB	OR	OFF	2007/06/08 19:53
L6	264	1 and 2 and (4 5)	US-PGPUB	OR	OFF	2007/06/08 19:53
L7	98078	(prevent protect prevention protection).clm.	US-PGPUB	OR	ON	2007/06/08 19:54
L8	124	6 and 7	US-PGPUB	OR	ON	2007/06/08 19:54
L9	3005	(MR GMR TMR TJMR TGMR SV SVMR magneto?resist\$5 AMR).clm.	US-PGPUB	OR	OFF	2007/06/08 19:54
L10	0	8 and 9	US-PGPUB	OR	OFF	2007/06/08 19:54
L11	0	6 and 9	US-PGPUB	OR	OFF	2007/06/08 19:54

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	142	(360/323).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L2	318	(360/322).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L3	345	(360/313).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L4	1479	(360/110).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L5	120	(360/245.8).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L6	251	(360/234.5).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35

## EAST Search History

L7	26	(360/234.4).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
L8	2617	L1 L2 L3 L4 L5 L6 L7	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:42
L9	862892	transistor	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:42
L10	1468608	on	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:42
L11	5129962	read reading transducing state	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:42
L12	4034	9 and 10 and 11	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:43

## EAST Search History

L13	39	9 same 10 same 11	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
L14	27	9 with 10 with 11	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:43
L15	2941	9 and 10 and 11	FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:43
L16	2098541	short shorting shorted	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
L17	117346	shunt shunting shunted	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
L18	33	9 with 10 same 11	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
L19	139469	MR GMR TMR TJMR TGMR SV SVMR magneto?resist\$5 AMR	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:46

## EAST Search History

L20	0	19 and (18 13)	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:47
L21	0	head and (18 13)	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:47
L22	5	read and (18 13)	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:47
S1	424	watko.xa,xp.	US-PGPUB ; USPAT	OR	OFF	2006/10/26 16:48
S2	424	watko.xa,xp.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/10/26 16:48
S3	768068	ESD or shock or discharge	US-PGPUB ; USPAT	OR	OFF	2006/10/26 16:49
S4	1029156	switch diode	US-PGPUB ; USPAT	OR	OFF	2006/10/26 16:49
S5	202555	S3 and S4	US-PGPUB ; USPAT	OR	OFF	2006/10/26 16:49
S6	9	S1 and S5	US-PGPUB ; USPAT	OR	OFF	2006/10/26 16:49
S7	8	("20010048573"   "20030137789"   "20030174445"   "5491605"   "5559051"   "5757591"   "6400534"   "6424505").PN.	US-PGPUB ; USPAT; USOCR	OR	OFF	2006/10/26 16:50
S8	5	("6005733" "6067220" "6128149" "6429991" "6891702").pn.	US-PGPUB ; USPAT	OR	OFF	2006/10/26 20:20

## EAST Search History

S9	2	("5644454" "5757590").pn.	US-PGPUB ; USPAT	OR	OFF	2006/10/27 12:49
S10	113283	shunt shunting shunted	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
S11	1992856	short shorting shorted	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:44
S12	123404	MR GMR TMR TJMR TGMR SV SVMR magneto?resist\$5 AMR	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:46
S13	2456884	ESD shock discharge arc\$5	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 12:51
S14	15738	(S10 S11) and S12 and S13	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 12:52
S15	188986	("360"/\$ "369"/\$ "720"/\$ 29/603\$).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 12:52

## EAST Search History

S16	1179	S14 and S15	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S17	132	(360/323).cccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S18	307	(360/322).cccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S19	306	(360/313).cccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S20	1478	(360/110).cccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S21	117	(360/245.8).cccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02

## EAST Search History

S22	231	(360/234.5).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:02
S23	25	(360/234.4).ccls.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 17:03
S24	2533	S17 S18 S19 S20 S21 S22 S23	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/08 19:35
S25	2	"5465186".pn.	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/10/27 18:11



## EAST Search History

S26	32	(US-20060221489-\$ or US-20050254158-\$ or US-20050162785-\$ or US-20050105220-\$ or US-20030210501-\$ or US-20020136130-\$ or US-20020097532-\$ or US-20050117263-\$).did. or (US-6972930-\$ or US-5757591-\$ or US-5559051-\$ or US-6891702-\$ or US-5757590-\$ or US-5644454-\$ or US-6067220-\$ or US-6005733-\$ or US-7119995-\$ or US-6972933-\$ or US-6914758-\$ or US-6710983-\$ or US-6583968-\$ or US-6552879-\$ or US-6538857-\$ or US-6424505-\$ or US-6400534-\$ or US-6104048-\$ or US-5903415-\$ or US-5877911-\$ or US-5327303-\$ or US-6574078-\$ or US-6377411-\$ or US-5465186-\$).did.	US-PGPUB ; USPAT	OR	OFF	2006/10/27 18:22
S27	333	ESD and (TJ TJMR TMR TGMR (tunnel adj (junction magneto?resist\$5)))	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/10/27 20:19
S28	96275	threshold and diode	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/10/27 20:20

## EAST Search History

S29	23	S27 and S28	US-PGPUB ; USPAT; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/10/27 20:20
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